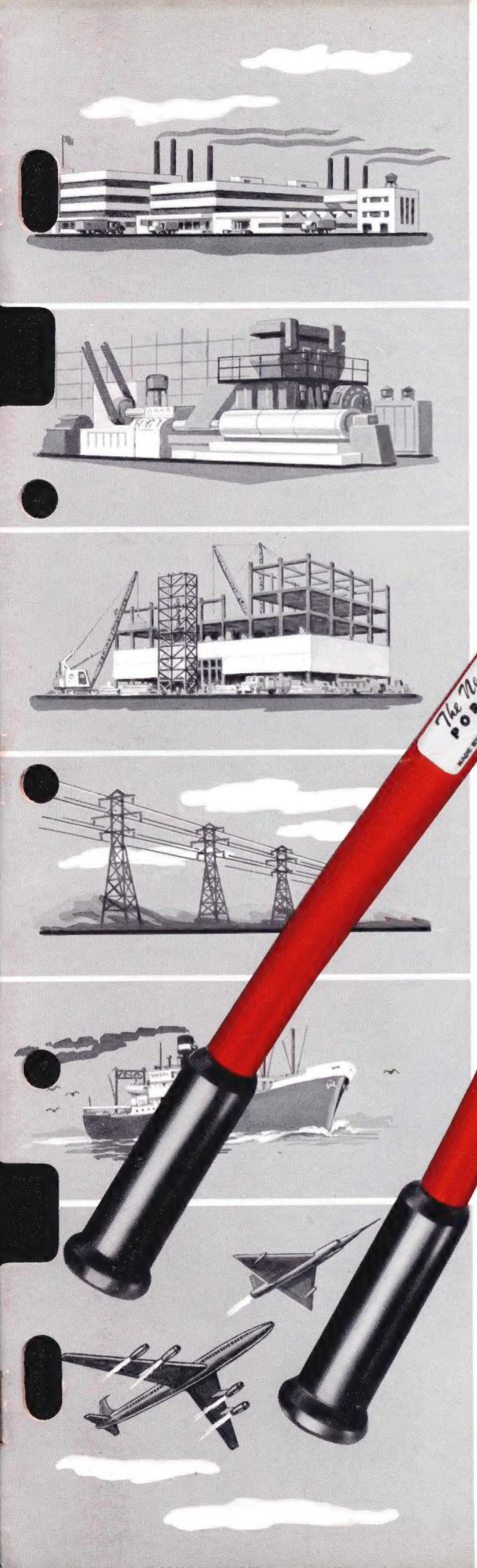
METAL CUTTING TOOLS FOR INDUSTRY



HKP®

CUTTERS

and INDUSTRIAL TOOLS

- HAND
- PNEUMATIC
- HYDRAULIC

HKP® **H. K. PORTER, INC.**

Manufacturers of
Cutting Tools Since 1880

SOMERVILLE 43, MASSACHUSETTS

Select the RIGHT CUTTER for the material to be cut.

1. Check list below for material to be cut.
2. Note various tools recommended.
3. Refer to catalog and select the correct type and size tool.
4. Order correct tool from your distributor.

BOLTS · RODS · SCREWS · RIVETS ETC., SOFT STEEL OR METAL

FOR CLOSE OR FLUSH CUTS
Pg. 8 (9190NE, 9190A, 7190C, 7390C), Pg. 9 (Clipper Cut, Angular, End), Pg. 10 (1290NE, 690A).

FOR GENERAL CUTTING
Pg. 4 (Center Cut), Pg. 6 (1790CD), Pg. 7 (H1700 plus 1713CD), Pg. 8 (9190C, 7190, 7390), Pg. 10 (1290NE, 690C).

FOR SPECIAL POSITION CUTS
Pg. 8 (9190A), Pg. 9 (End, Angular) Pg. 10 (690A).

MEDIUM HARD METALS

FOR CLOSE OR FLUSH CUTS
Pg. 9 (Clipper Cut — Round Edge).

FOR ALL GENERAL CUTTING
Pg. 4 (Center Cut), Pg. 6 (1790CD), Pg. 7 (H1700 plus 1713CD, H-75, H-118, H-138), Pg. 8 (7190, 7390).

HARD STEEL

Pg. 5 (Center Cut — Round Edge and Heavy Duty) Pg. 6 (1790CD), Pg. 7 (H1700 plus 1713CD and H-75, H-118, H-138), Pg. 8 (7190CR, 7390CR, 7090HC, 7190HC, 7390HC), Pg. 15 (HC).

FLAT BARS

Pg. 8 (7190T, 7390T), Pg. 10 (T Shear).

STEEL CABLE

Pg. 4 (Center Cut), Pg. 5 (Center Cut — Round Edge), Pg. 6 (1790TN), Pg. 7 (H1700 plus 1713TN), Pg. 8 (7190, 7390), Pg. 10 (690C), Pg. 11 (TN and CL).

CABLE, COPPER OR ALUMINUM

Pg. 4 (Center Cut), Pg. 6 (179087, 179089), Pg. 7 (H1701 plus 8713, H1701 plus 8913), Pg. 11 (CN and CS), Pg. 12 (Hydraulic Cable Cutter and FH), Pg. 13 (WFC and WC).

CHAIN

Pg. 6 (1790CD), Pg. 7 (H1700 plus 1713CD), Pg. 8 (9190C, 7190C-CR-HC, 7390C-CR-HC, 7090HC), Pg. 15 (HC).

NUTS

Pg. 13 (1390 PQ Nut Splitter).

REINFORCING ROD

Pg. 5 (Center Cut — Round Edge, Heavy Duty — Round Edge), Pg. 6 (1790CD), Pg. 7 (H1700 plus 1713CD, H-75, H-118, H-138), Pg. 8 (9190CR, 7190CR, 7390CR).

SPRING WIRE

Pg. 5 (Center Cut — Round Edge), (Heavy Duty), Pg. 6 (1790CD), Pg. 7 (H1700 plus 1713CD), Pg. 8 (9190CR, 7190CR, 7390CR), Pg. 15 (HC).

STEEL STRAPPING

Pg. 10 (T Shear), Pg. 14 (690T, 990T, 1290T, 2690K).

STRIP STOCK

Pg. 8 (7090T, 7190T, 7390T), Pg. 10 (T Shear), Pg. 14 (690T, 990T, 1290T, 2690K).

BINDING AND BOX WIRE

Pg. 10 (690C), Pg. 14 (690T, 990T, 1290T, 2690K).

ELECTRIC WIRE

Pg. 4 (Center Cut), Pg. 12 (CO_2 Cutter), Pg. 13 (WC, FC).

HOT WIRE

Pg. 12 (CO_2 Cutter), Pg. 13 (WC, WFC).

WIRE ROPE

Pg. 4 (Center Cut), Pg. 6 (1790TN), Pg. 7 (H1700 plus 1713TN), Pg. 8 (7190TN, 7390TN), Pg. 11 (TN), (CL).

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TRIPOD ATTACHMENT	Pg. 5

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THE *New Design** HKP CUTTER

For over 80 years HKP CUTTERS have been the **standard of quality** — whenever industry has a metal-cutting job to do. And while the basic engineering principle behind the HKP CUTTER has never changed, improvements in materials and design are constantly being incorporated.

Recently, HKP research and development succeeded in a "break through" of major proportions. The result — the **New Design** HKP CUTTER — a metal cutter that will solve your metal-cutting problems faster, better and more economically than ever before.

QUICK, SIMPLE ADJUSTMENT — only one adjustment instead of four to keep cutting edges perfectly aligned.

LIGHTER — up to 1½ lbs. lighter for easier handling — easier operation.

MORE RUGGED — all-steel tubular handles for great strength. Won't bend or break.

RUBBER COMFORT GRIPS — for "no fatigue" handling and "no slipping".

FEWER PARTS — 11 fewer parts for smoother, easier action, less wear.

HANDLES CLOSER TOGETHER—for better power.

INDUSTRIAL DISTRIBUTORS
SERVING INDUSTRY ECONOMICALLY
THE RIGHT HAND OF PRODUCTION
WE NEED HIM — YOU DO TOO!

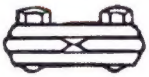
Plus all the basic features that have made HKP the world's best cutter since 1880.

- Jaws — Alloy Tool Steel, drop-forged, precision-ground, and induction-hardened to close tolerances for durability.
- Accurately beveled cutting edges, scientifically heat-treated to required hardness and toughness.
- Lock Plate prevents jaw bolts turning or loosening. Head won't get "sloppy".
- Throat spring keeps work in proper cutting position.

*For the present the #14 and #0 Models will be supplied with standard handles and adjusting sections as shown at left. The NEW DESIGN HKP CUTTER replaces the standard cutter in the #1 - #2 - #3 Models. The #5 Model has been the all steel type for several years.

SOMERVILLE 43, MASS.

CENTER CUT CUTTERS



MANY USES IN MANUFACTURING, MAINTENANCE AND CONSTRUCTION HAVE MADE THIS CUTTER AN ALL-TIME FAVORITE.

This is HKP's famous sharp-edge Center Cut Cutter. Jaws are drop-forged, induction-hardened and beveled on each side to give added strength and long, trouble-free service. Its famous toggle joint transforms 50 pounds hand pressure on the handles to 4,000 lbs. pressure on the cutting edges of the blades. Completely independent of outside power sources, it can be taken to the job — for quick, efficient hand cutting of metals. Every shop or factory can use one or more of these labor-saving, cost-cutting tools.

FOR GENERAL CUTTING

SOFT OR MEDIUM HARD STEEL, IRON, BRASS, COPPER, ALUMINUM AND PLASTICS. SOFT OR MEDIUM HARD RODS, BOLTS, RIVETS, WIRE, ETC., UP TO BRINELL 300, ROCKWELL C31 HARDNESS.

SIZES and CAPACITIES

Tool No.	Approx. Length	Capacities		Approx. Weight Lbs.
		Soft or Med. Hard Bolts in Thread	Soft or Med. Hard Metals	
1490 C	14″	5/16″	1/4″	2 7/8
090 C	18″	3/8″	5/16″	4 1/4
190 MC	24″	7/16″	3/8″	5 1/4
290 MC	30″	9/16″	1/2″	8 1/2
390 MC	36″	5/8″	9/16″	12 7/8
590 C	42″	3/4″	5/8″	17 1/8

For the present the #14 and #0 Models will be supplied with standard handles and adjusting sections as shown above. The NEW DESIGN HKP CUTTER replaces the standard cutter in the #1 - #2 and #3 Models. The #5 Model has been the all steel type for several years.

CENTER CUT — ROUND EDGE

HKP

FOR HARD METAL CUTTING JOBS

The drop-forged and induction-hardened cutting blades of this cutter have slightly rounded edges with equal bevel on both sides for cutting all the harder metals.

FOR CUTTING

Concrete Reinforcing Rods, Hard Cable, Chrome Ball Wire, Cold Drawn Alloy Wire, Most Types of Stainless Steel, Tempered Spring Wire. Up to Brinell 400, Rockwell C 42 Hardness.

SIZES and CAPACITIES

Tool. No.	Approx. Length	Capacities Hard Metals	Approx. Weight Lbs.
1490 CR	14″	3/16″	2 7/8
090 CR	18″	1/4″	4 1/4
190 MCR	24″	5/16″	5 1/4
290 MCR	30″	3/8″	8 1/2
390 MCR	36″	7/16″	12 7/8
590 CR	42″	1/2″	17 1/8

HEAVY DUTY — ROUND EDGE

THE MOST RUGGED CUTTER FOR THE TOUGHEST JOBS

Engineered especially for industry's toughest metal cutting. Drop-forged and induction-hardened blades with rounded center cut edges assure long service; extra heavy jaw bolts and straps on cutting head give added support. Additional power can be obtained with Powerpull and Tripod Attachments for extra heavy or continuous cutting.

FOR CUTTING

Hard Metals, Concrete Reinforcing Rods, Hard Wire Rope, Chrome Ball Wire, Cold Drawn Alloy Steel, Stainless Steel, Tempered Spring Wire. Up to Brinell 400, Rockwell C 42 Hardness.

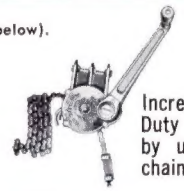
SIZES and CAPACITIES

Tool No.	Approx. Tool Length	Hard Bolts in Thread	Hard Stranded Cable Stranded Guy Wire	Hard Metals	Approx. Weight Lbs.
290 MHD	30″	9/16″	7/16″	3/8″	9 1/4
390 MHD	36″	5/8″	1/2″	7/16″	14 1/8
590 HD	42″	3/4″	5/8″	1/2″	18 1/4
590 JN	42″	3/4″	5/8″	5/8″	28
590 JO	42″	3/4″	5/8″	5/8″	40

#590 JN is #590 HD with Powerpull (see below).
#590 JO is #590 HD with Powerpull and Tripod (see below).

TRIPOD

When attached to Heavy Duty Cutter, places cutting operation at convenient level for easier cutting.



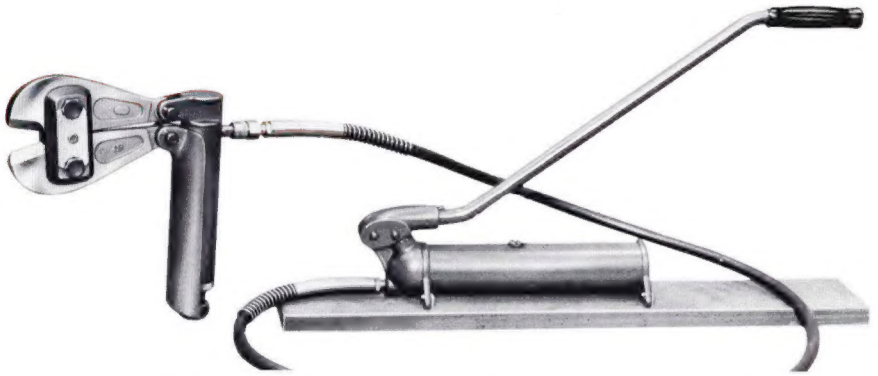
POWERPULL

Increases the power of the Heavy Duty Cutter beyond hand power by use of reduction gear and chain sprocket.

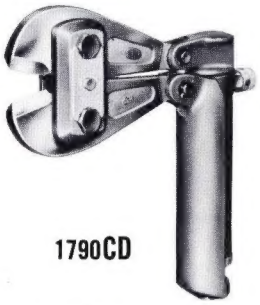
For the present the #14 and #0 Models will be supplied with standard handles and adjusting sections. The NEW DESIGN HKP CUTTER replaces the standard cutter in the #1 - #2 - #3 Models. The #5 Model has been the all steel type for several years.

HAND-HYDRAULIC CUTTERS

TAKE THE HARD WORK OUT OF CUTTING . . . SAVE TIME, WORK AND MONEY ON EVERYDAY TOUGH CUTTING JOBS OF ALL METALS, STEEL, POWER AND COMMUNICATION CABLE



HKP Hand-Hydraulic Cutters operate independent of outside power source. Remote control provides quick, safe and efficient cutting of metals on the ground, in the air, or underground. The combination of hand hydraulic power with a choice of four Cutterheads produces a line of tools that take the hard work out of metal cutting. Cutters are powered by hand-hydraulic pumps that force hydraulic fluid through high pressure hose to deliver 25,000 P.S.I. pressure on the cutting edges of the blades. By-pass valve, two filter screens, plus magnet in the pump prevents damage from overloading and assures long, trouble-free service. Cutting blades are drop-forged and induction-hardened to insure long life, and ram is adjustable to compensate for wear on cutting blades.



1790CD

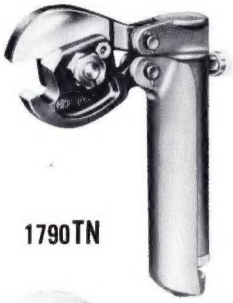
FOR CUTTING

SOFT OR MEDIUM HARD METALS, CONCRETE REINFORCING ROD, STAINLESS STEEL, ETC. COLD ROLLED STEEL THROUGH 5/8" AND HOT ROLLED STEEL THROUGH 3/4"

1790CD — Complete Unit including Heavy Duty Center Cut Cutterhead, Ram, Pump, Hose and Coupling. Wt. 38½ lbs.

1713CD & 1744 — Complete Cutterhead and Piston Assembly for use with BU-830 Hydraulic Pump.

1713CD — Cutterhead only.



1790TN

FOR CUTTING

SOFT AND MEDIUM-HARD COARSE STRANDED GUY WIRE, WIRE ROPE AND CABLE THROUGH 3/4" DIAMETER

1790TN — Complete Unit including Notched Shear type Cutterhead, Ram, Pump, Hose and Coupling. Wt. 34 lbs.

1713TN & 1744 — Complete Cutterhead and Piston Assembly for use with BU-830 Hydraulic Pump

1713TN — Cutterhead only.

179087 — 2" Cap.
179089 — 3" Cap.

FOR CUTTING

COPPER AND ALUMINUM COMMUNICATION AND POWER CABLE (NOT ACSR) 2 MODELS, 2" AND 3" CAPACITIES

179087 — 2" Cap. } Complete unit with Shear Type Cutterhead, Ram, Pump,
179089 — 3" Cap. } Hose and Coupling. Wt. 35 lbs.

8713 & 1745 — 2" Cap. } Complete Cutterhead and Piston Assembly for use
8913 & 1745 — 3" Cap. } with BU-830 Hydraulic Pump

8713 — 2" Cap. } Cutterhead only
8913 — 3" Cap. }

POWER HYDRAULIC CUTTERS and POWER PACKS

HKP

FAST, EFFICIENT CUTTERS for MULTIPLE or FREQUENT CUTTING of ALL METAL, STEEL CABLE, WIRE ROPE, COMMUNICATION CABLE.

Powered by portable, self-contained HKP Hydraulic Power Units, these cutters have convenient pistol grip and holding handle for positive cutter positioning and operator safety. Positive-acting push button pistol-grip safety controls hydraulic cutting action.

FOR CUTTING

ALL SOFT or HARD METALS, CONCRETE REINFORCING ROD, HARD WIRE ROPE, STAINLESS STEEL, BRASS, COPPER, ALUMINUM, PLASTICS, ETC., THROUGH ¾" DIAMETER.

H1700 & 1713CD — Complete unit including Heavy Duty Center Cut Jaws, Hydraulic Cylinder Assembly and Pistol Grip.

H1700 — Complete Hydraulic Cylinder Assembly and Pistol Grip. (Does not include cutterhead.)

1713CD — Cutterhead only.

SOFT AND MEDIUM-HARD, COARSE STRANDED GUY WIRE, WIRE ROPE, AND CABLE THROUGH ¾" DIAMETER.

H1700 & 1713TN — Complete unit including Notched Shear Blades, hydraulic Cylinder Assembly and Pistol Grip.

H1700 — Complete Hydraulic Cylinder Assembly and Pistol Grip. (Does not include cutterhead.)

1713TN — Cutterhead only.

COPPER AND ALUMINUM COMMUNICATION CABLE (Not ACSR) 2 Models, 2" and 3" Capacity.

H1701 — Complete Hydraulic Assembly and Pistol Grip. (Does not include cutterhead.)

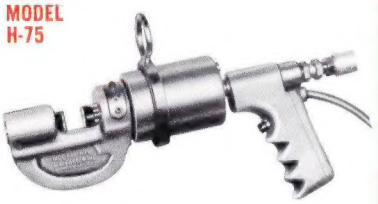
8713 — 2" CAPACITY
8913 — 3" CAPACITY
} Cutterhead only.

ONE HOSE HYDRAULIC ROD and BAR CUTTERS

Engineered for cutting CARBON STEEL, ALLOY STEEL, OIL-TEMPERED STEEL, NON-FERROUS RODS and REINFORCING RODS

Preferred by Steel and Wire Mills, Construction Companies, Utilities and all industries who have to cut large diameter metals. One-hose design with finger-tip control of cutting action gives fast, multiple cuts without operator fatigue. Extra-long blades are capable of up to 20,000 cuts without misalignment or resharpening.

MODEL H-75

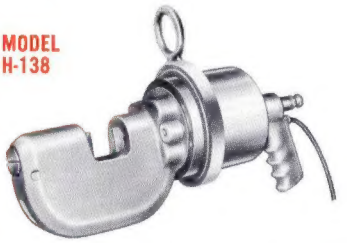


FOR CUTTING SQUARE LOW-CARBON STEEL OR ROUND HIGH-CARBON STEEL THROUGH ¾" DIAMETER. Wt. — 14 lbs.

MODEL H-118

FOR CUTTING 1⅛" SQUARE LOW-CARBON STEEL OR 1⅛" ROUND HIGH OR LOW-CARBON STEEL. Wt. — 40 lbs.

MODEL H-138



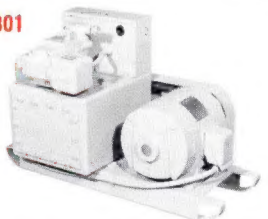
FOR CUTTING 1⅜" SQUARE OR ROUND HIGH-CARBON STEEL. Wt. — 105 lbs.

HYDRAULIC POWER UNITS

HE-5401

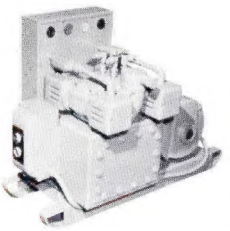
A portable, self-contained Hydraulic Power Unit that provides power necessary to operate any of these cutterheads. Connects to any 110 Volt, 60 Cycle, single phase outlet. Operates one workhead.

HE-5301



A rugged, heavy duty, portable unit for use where fast, multiple cuts are a requirement. Has one high pressure hose connection for operating one cutter.

HE-5302

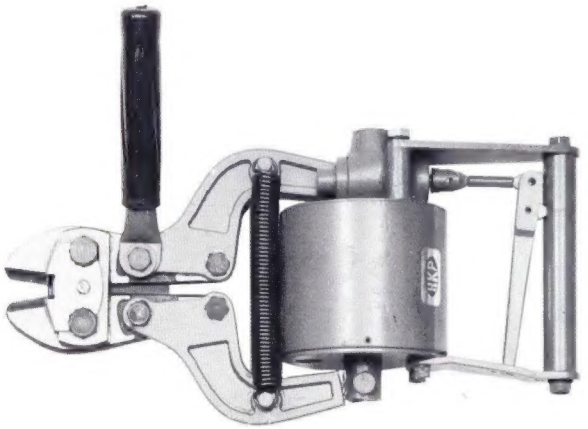


Similar in design to HE-5301 but designed to operate two cutterheads. Other models available for operating 4 workheads from same Hydraulic Unit.

For more information send for Special Power Tool Catalog

PNEUMATIC CUTTER

LIGHTEST, FASTEST, MOST ECONOMICAL TOOL FOR CONTINUOUS CUTTING OF METALS OR PLASTICS THROUGH 3/8″



Combining pneumatic power with a choice of four different type cutting heads for continuous cutting of metals and plastics. Light in weight, fast operating and easy positioning, this cutter can be carried to any location or may be bench mounted and operated by remote control if desired. Requires only 80 - 100 P.S.I. air supply. Air exhaust is dissipated, eliminating any dangerous blast at end of cutting stroke. Handle is adjustable for convenient holding position on either side of tool. Short piston travel permits cutting in confined areas. Spring control of piston assures quick return after cut and speeds up cutting operations. Finger pressure valve control provides sure, positive, effortless cutting. Available with choice of Cutting Heads — Center Cut (9190C) for general cutting, Center Cut Round Edge (9190CR) for heavy duty cutting, Side Cut (9190NE) for close cutting, and Angular Cut (9190A) for special position cutting. Weight — 11 lbs.

FOR CUTTING

STEEL, ALUMINUM, COPPER, IRON AND PLASTICS, SOFT OR MEDIUM HARD RODS, BARS, WIRE, BOLTS, CABLE, REINFORCING ROD, CHAIN, RIVETS, PINS, ETC. THROUGH 3/8″ DIAMETER.

WORK STATION CUTTERS

FOR ONE-HAND CONTINUOUS CUTTING

Utilizing only hand power, these cutters may be permanently mounted on bench or bolted to plank and carried to the job. One hand pulls handle toward operator, leaving other hand free for continuous feeding of material with every cutting operation in full view. Increase the cutting capacity of one man up to 300%. Available with Center Cut Jaws for general metal cutting or with a wide selection of different type cutter heads for specialized cutting operations. If these Work Station Cutters are the answer to your cutting problem — Your Industrial Distributor will recommend the right tool to meet your requirements.

SPECIFICATIONS

Tool No.	Base	Handle Length	Weight Lbs.
7090 Series	2¾″ x 6″	16¼″	5½
7190 Series	3″ x 6″	21″	8
7390 Series	5″ x 8″	34″	20

TYPE	Tool No.	Capacity	Materials
	7090C 7190C 7390C	5/16″ 3/8″ 1/2″	Soft or Medium Hard Rods, Bolts and Bars up to Brinell 300, Rockwell C31 Hardness
	7190NE 7390NE	3/8″ 1/2″	Soft Rods, Bolts and Bars (where flush cut is required) up to Brinell 200, Rockwell C15 Hardness
	7190CR 7390CR	5/16″ 3/8″	Hard Rods and Spring Wire up to Brinell 400, Rockwell C42 Hardness
	7190RE	3/8″	Soft Rods, Bolts and Bars (where flush cut is required) up to Brinell 300, Rockwell C31 Hardness

TYPE	Tool No.	Capacity	Materials
	7090T 7190T 7390T	up to 14 gg. x 2½″ wide 1¼″ x 7/32″ 1 7/16″ x 1/4″	Flat Bars and Strip Steel up to Brinell 400, Rockwell C42 Hardness
	7190TN 7390TN	3/8″ 1/2″	Wire Rope or Cable up to Brinell 400, Rockwell C42 Hardness
	7190E 7390E	3/8″ 1/2″	Soft Rods, Bolts and Bars up to Brinell 200, Rockwell C15 Hardness
	7090HC 7190HC 7390HC	1/4″ 5/16″ 3/8″	Hard Chain up to Brinell 440, Rockwell C46 Hardness
	7390HD	3/8″	Hard Rods and Spring Wire up to Brinell 400, Rockwell C42 Hardness

FOR CLOSE and SPECIAL POSITION CUTTING

HKP

CLIPPER CUT — SHARP EDGE

For Flush Cutting of Soft Metals

The cutter to use when you want to trim a projecting end close and square. The blades are beveled from one side and the cutting edges are in line with the handles.

FOR CLOSE CUTTING

OF NON-FERROUS METALS AND SOFT STEEL, ALUMINUM, BRASS, COPPER, WROUGHT IRON, SOFT STEEL BOLTS, SCREWS, RIVETS, RODS, WIRE, UP TO BRINELL 200, ROCKWELL C 15 HARDNESS.

Tool No.	Approx. Length	Capacities Soft Bolts in Thread	Capacities Soft Metals	Approx. Weight Lbs.
1490 NE	14″	5/16″	1/4″	2 7/8
090 NE	18″	3/8″	5/16″	4 1/4
190 MNE	24″	7/16″	3/8″	5 1/4
290 MNE	30″	9/16″	1/2″	8 1/2
390 MNE	36″	5/8″	9/16″	12 7/8
590 NE	42″	3/4″	5/8″	17 1/8

CLIPPER CUT — ROUND EDGE

For Flush Cutting of Medium Hard Metals

The same basic tool as the sharp edge Clipper Cutter, except that the cutting edges are slightly rounded and higher tempered for greater strength.

FOR CLOSE CUTTING

OF MEDIUM HARD METALS, ALLOY STEEL BOLTS, SPRING STEEL, UNANNEALED CARBON TOOL STEEL, HEAT-TREATED CARBON STEEL BOLTS NOT CASE HARDENED, UP TO BRINELL 300, ROCKWELL C 31 HARDNESS.

Tool No.	Approx. Length	Capacities Bolts in Thread	Capacities Med. Hard Metals	Approx. Weight
1490 RE	14″	5/16″	1/4″	2 7/8
090 RE	18″	3/8″	5/16″	4 1/4
190 MRE	24″	7/16″	3/8″	5 1/4

END CUT — NIPPER EDGE

For Head-On Close Cutting

Because the cutting edges are at right angles to the handles, this cutter is particularly useful for close, flush cutting from a "head-on" position.

FOR CUTTING

ALUMINUM, BRASS, COPPER, WROUGHT IRON, SOFT STEEL BOLTS, SCREWS, RIVETS, RODS, WIRE, UP TO BRINELL 200, ROCKWELL C 15 HARDNESS.

Tool No.	Approx. Length	Capacities Soft Bolts in Thread	Capacities Soft Metals	Approx. Weight Lbs.
1490 E	14″	5/16″	1/4″	3
190 ME	24″	7/16″	3/8″	5 3/8
390 ME	36″	5/8″	9/16″	12 3/4

ANGULAR CUT — SHARP EDGE

For Close Cutting on Work Surfaces

The handles of this cutter are set at an angle of 30° to the cutting edges. Prevents awkward cutting position — keeps work in sight — and the worker's hands never scrape against the working surface.

FOR CUTTING

ALUMINUM, BRASS, COPPER, WROUGHT IRON, FORM WIRE, SOFT STEEL BOLTS, SCREWS, STUDS, RIVETS, RODS, STRANDED WIRE, UP TO BRINELL 200, ROCKWELL C 15 HARDNESS.

Tool No.	Approx. Length	Capacities Soft Bolts in Thread	Capacities Soft Metals	Approx. Weight Lbs.
1490 A	14″	5/16″	1/4″	3 1/8
190 MA	24″	7/16″	3/8″	5 1/2
390 MA	36″	5/8″	9/16″	13 1/8

SEE NOTE PAGE 3 REGARDING REDESIGNED TOOLS.

690A HANDKLIP ANGULAR CUTTER

For close, flush cuts. Handles are offset 30° to blade cutting edges. Keep operator's hands away from working surface when making close, flush cuts. Work is always in full view. Plastic-covered handles give positive, non-slip grip and eliminate hand fatigue. Tool-box size.

FOR CLOSE CUTTING

SMALL SOFT METALS, SOFT WIRES, RODS, BOLTS, FORM WIRES, COTTER PINS, ETC., UP TO BRINELL 200, ROCKWELL C 15 HARDNESS.

Tool No.	Approx. Length	Capacity Soft Bolts in Thread	Capacity Soft Rods	Approx. Weight Lbs.
690 A	9″	¼″	3⁄16″	13 oz.

690C HANDKLIP WIRE CUTTER — CENTER CUT

Another popular one-hand cutter with specially designed parrot-beak jaw to locate wire or pull staples. Plastic-covered handles give positive non-slip grip. Tool-box size.

FOR CUTTING

SMALL AND MEDIUM-HARD METALS, WIRES, CABLES, RODS, BOLTS, BALING WIRE, ETC., UP TO BRINELL 300, ROCKWELL C 31 HARDNESS.

Tool No.	Approx. Length	Capacity Soft Wire Rope	Capacity Soft Bolts in Thread	Capacity Soft Rods	Approx. Weight Lbs.
690 C	9″	3⁄16″	¼″	3⁄16″	13 oz.

1290NE UTILITY CLIPPER CUTTER

For close, flush cuts on soft metals. Here's the handiest cutter you'll ever find for those many cutting jobs of soft metal around the shop, home or farm. Made the same and works the same as the large Porter Cutters. Takes two hands to use but still tool-kit size.

FOR CUTTING

SOFT METALS, ALUMINUM, BRASS, COPPER, NON-FERROUS METALS, WROUGHT IRON, SOFT STEEL BOLTS, SCREWS, RIVETS, RODS, NAILS, WIRE, ETC., UP TO BRINELL 200, ROCKWELL C 15 HARDNESS.

Tool No.	Approx. Length	Capacity Soft Bolts in Thread	Capacity Soft Metals	Approx. Weight Lbs.
1290 NE	12″	¼″	3⁄16″	1½

1590C UTILITY CENTER CUT CUTTER

For general purpose cutting. Small in size but what a performer! Has Center Cut type jaws for general cutting of soft and medium-hard metals. Lightweight but rugged and dependable.

FOR CUTTING

SOFT OR MEDIUM-HARD RODS, ALLOY WIRE AND RODS NOT HEAT-TREATED, ETC., UP TO BRINELL 300, ROCKWELL C 31 HARDNESS.

Tool No.	Approx. Length	Capacity Soft Metals	Approx. Weight Lbs.
1590 C	15″	¼″	1⅜ lbs.

SHEAR CUTTERS

Widely used in strip steel mills, airplane, shipbuilding, sign erection and salvage work, the cutting edges pass each other for a complete shear cut. Adjustable "keeper" holds material between jaws while cutting.

FOR CUTTING

SOFT OR HARD FLAT BARS OR STRIP STOCK, STRIP STEEL UP TO BRINELL 400, ROCKWELL C 42 HARDNESS.

Tool No.	Approx. Length	Capacities Flat Bars Strip Steel	Approx. Weight Lbs.
1490 T	14″	⅞″ x 5⁄32″	2¾
190 MT	24″	1¼″ x 7⁄32″	4¾
390 MT	36″	1½″ x 9⁄32″	13⅛

SEE NOTE PG. 3 REGARDING REDESIGNED TOOL

HKP

STEEL CABLE CUTTER

When you use this cutter there's a minimum of crushing or deforming the cable. Notched jaw holds and locks cable in place during the cut. Cutting edges pass each other. This shearing action results in a clean, sharp cut of both coarse or fine stranded material.

FOR CUTTING

ALL SOFT OR HARD STEEL CABLE OR WIRE ROPE UP TO CAPACITIES SHOWN. EXCELLENT FOR SOFT WIRE ROPE AND CABLE, HARD WIRE ROPE, STRANDED GUY WIRE, IMPROVED PLOW STEEL UP TO BRINELL 400, ROCKWELL C 42 HARDNESS.

Tool No.	Approx. Length	Capacities Wire Rope and Cable	Approx. Weight Lbs.
1490TN	14″	¼″	3
190MTN	24″	⅜″	5
390MTN	36″	⅝″	12⅝
590TN	42″	¾″	17

CABLE CUTTER — CENTER CUT

Extra heavy construction at cutting head makes this cutter ideal for heavy electric power cable — in addition to wire rope. Cutting edges of center cut jaws meet to cut strands cleanly. Power-pull and Tripod attachments as shown on page 5 can be adapted to 590 TN for easier cutting. Also see 1790 TN on page 6.

FOR CUTTING

SOFT TO MEDIUM-HARD COARSE STRANDED WIRE ROPE OR CABLE. STRANDED GUY WIRE, WIRE ROPE, WIRE CABLE, UP TO BRINELL 300, ROCKWELL C 31 HARDNESS.

Tool No.	Approx. Length	Capacities Soft Wire Rope & Cable	Capacities Hard Wire Rope & Cable	Approx. Weight Lbs.
590 CL	43″	⅞″	¾″	20½
590 JG	43″	⅞″	¾″	29

(590 JG is tool with power pull, see page 5. Also see 1790 TN on page 6).

SPECIAL SHEAR CABLE CUTTER

Every company that handles aluminum or copper cable should keep at least one of these indispensable cutters handy at all times. It is especially designed for cutting power cables except ACSR. Jaws pass each other for clean cutting.

FOR CUTTING

SOFT, NON-STEEL CABLE. CUTS COPPER AND ALUMINUM CABLE ONLY. DO NOT USE ON ACSR CABLE. SEE TN CUTTERS TOP OF THIS PAGE and 179087 & 89 cutters on Page 6.

Tool No.	Approx. Length	Capacity Copper or Aluminum Cable	Approx. Weight Lbs.
290 CN	30″	1⅜″ O.D.	9

LEAD SHEATHED CABLE CUTTER

Just the tool to use for cutting communication cable. The shearing action of the jaws which pass each other, minimize crushing of inside wires. The head is alloy tool steel, drop-forged and heat-treated to hold a wear-resistant edge, a 15″ extension handle, #303CS, can be attached to tool #390CS to obtain extra leverage. (See 179087 & 89 tools on page 6.)

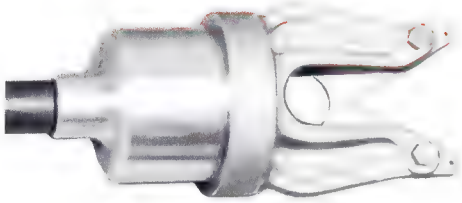
FOR CUTTING

LEAD-SHEATHED COMMUNICATION CABLE.

Tool No.	Approx. Length	Capacity Communication Cable	Capacity Insulated Stranded Copper Wire	Approx. Weight Lbs.
190 CS	23½″	1″	375,000 Circular Mils	5¼
390 CS	37″	2¼″	750,000 Circular Mils	10¾

For the present the #14 and #0 Models will be supplied with standard handles and adjusting sections. The NEW DESIGN HKP CUTTER replaces the standard cutter in the #1 - #2 - #3 Models. The #5 Model has been the all steel type for several years.

CO_2 and CABLE CUTTERS — BUS BAR BENDER



This CO_2 powered portable cable cutter is designed for emergency cutting of energized conductors, safely and quickly. It consists of a cutterhead, insulated tubular handle extensions for user safety, and a CO_2 tank.

Primarily designed as a safety tool, it is convenient to use, easy to assemble and simple to maintain.

It will cut from No. 8 to 500 MCM bare hard copper, 350 MCM insulated aluminum or copper and ACSR to and including 4/0. It is **not** designed for cutting steel guy wire, wire rope or solid steel bar. Approximately 10 cuts can be made from one CO_2 tank under normal operating conditions. Tanks may be refilled by any company dealing in the processing of bottled gas or refilling CO_2 fire extinguishers.

Complete instructions are included with each cutter.

KIT 20604 Contains: —
Metal box with handle and two hasps, cutterhead, 2 - 3 foot insulated extension handles and 4 - CO_2 tanks. Weight of kit — 27 lbs.

CABLE CUTTER

Utility companies and cable manufacturers use this cutter for cutting regular or telephone inside cable, fine strand armored and stranded copper conductors. Shear type blades cut high insulation content wires cleanly. Power Slot principle increases cutting power 80%.

FOR CUTTING

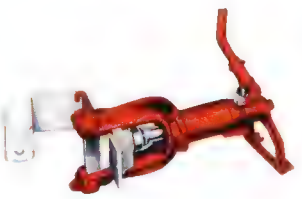
SOFT CABLE ONLY. LIGHT, POWER AND COMMUNICATION CABLES HAVING HIGH INSULATION CONTENT — NOT ADVISED FOR CABLE WITH HIGH PERCENTAGE OF COPPER WIRES. UP TO BRINELL 200, ROCKWELL C 15 HARDNESS.

Tool No.	Approx. Length	Capacity Armored Copper Cable	Approx. Weight Lbs.
290 FH	27″	1⅜″	4⅝
390 FH	34″	1¾″	7¼

3590 HYDRAULIC CABLE CUTTER

Powerful, light and portable, this 10,000 lb. self-retracting hydraulic jack can be operated from any position without stooping. Handle is hooked for easy carrying. For cutting cable with high insulation content up to 3½″ communication cables and lead-sheathed power cables up to 3000 MCM— except submarine cable.

3590B HYDRAULIC BUS BAR BENDER



The same basic unit as the cable cutter but with special anvil and rounded blade — but used for bending bus bars and similar equipment up to 4″ wide and ⅜″ thick. A real time and work saver on switchboard and generating station installations.

HKP

1390 PQ NUT SPLITTER WITH 2 SWIVEL BLADES

A real man's tool — not a toy! Splits frozen nuts fast — Cuts both sides of nut in one operation — without damage to bolt. Fingertip positioning of blades — blades stay in cutting position. Works even in hard-to-reach places. Made of finest steel, heat-treated and forged, for years of trouble-free service. Easy to operate — just turn the power screw with hand or impact wrench. Saves time, money, temper! Capacity: — Cuts nuts ⅞" across flats. Length: — 11¾". Weight: — 3⅛ lbs.

FIREMAN'S CUTTER — INSULATED

Used by almost every fire department in the country and installed as original equipment on most new apparatus — the fireman's cutter is the same as the insulated wire cutter with one addition: a groping hook guides wire into jaw openings for use in the dark and smoke.

FOR CUTTING

INSULATED AND SOFT TO MEDIUM HARD "LIVE" WIRES. COPPER WIRE, MEDIUM HARD STEEL WIRE. UP TO BRINELL 300, ROCKWELL C 31 HARDNESS.

Tool No.	Approx. Length	Capacity Solid Copper Wire	Jaws Open	Approx. Weight Lbs.
090 WFC	21¼"	5/16"	5/8"	5
190 WFC	27"	3/8"	3/4"	6½
390 WFC	39"	5/8"	1"	16

690M IMPAKDRIVER

to loosen or tighten nuts, bolts, screws. Loosens frozen fasteners — or tightens them. Impakdriver converts a hammer blow into a powerful torque that does **both** jobs with equal ease. An invaluable tool for anyone working with threaded fasteners. Purchase necessary impact bits and sockets from your regular distributor. Length—4¾". Weight—1⅛ lbs.

INSULATED WIRE CUTTER

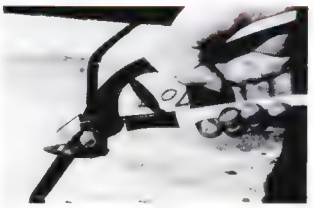
This is the cutter to use on "live" wires. Handles are insulated with a special rubber applied by a hot molded process which provides high dielectric strength and resistance to sharp objects, oxidation and chemicals. Each tool is tested to withstand 20,000 volts before shipment. Jaws are center cut type.

FOR CUTTING

BARE OR INSULATED AND SOFT TO MEDIUM HARD "LIVE" WIRES. COPPER WIRE, MEDIUM HARD STEEL WIRE. UP TO BRINELL 300, ROCKWELL C 31 HARDNESS.

Tool No.	Approx. Length	Capacity Solid Copper Wire	Jaws Open	Approx. Weight Lbs.
090 WC	19"	5/16"	5/8"	4½
190 WC	25"	3/8"	3/4"	6¼
290 WC	31½"	½"	⅞"	9¾
390 WC	37"	5/8"	1"	15

A "MUST" TOOL FOR ANYONE WHO CUTS STEEL STRAP



990T STEEL STRAP CUTTER

This tool does its job so well that it's already a best seller — Wedge-type jaws slip under the tightest strap or wire for quick, easy cuts. High leverage, special tempered cutting edges, and "cushion comfort" grips all combine to make cutting easy. Jaws open automatically before and after each cut. A shipping and receiving room that isn't equipped with these cutters is doing things the slow, hard way!

Tool No.	Approx. Length	Capacity Flat Strap up to	Approx. Weight Lbs.
990 T	9″	¾″ x .035 Round Strap up to 14 gauge (.080″)	1

690T HANDKLIP

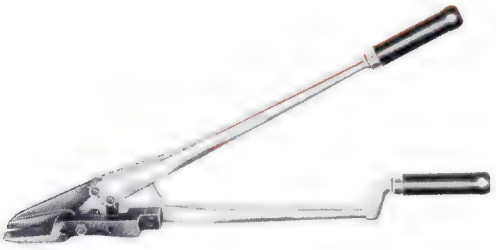
Another popular tool for cutting small or large flat or round steel strapping where it's easier to make a "pull" cut. Has shear cut pointed jaws — the top one of which hooks easily under strapping or wire without damage to container or contents. Adjustment screw gives correct shearing action at all times. Pocket size.

Tool No.	Approx. Length	Capacity Steel Strapping	Approx. Weight Lbs.
690 T	9″	.035″ x 1¼″	14 oz.

1290T STEEL STRAP CUTTER

A work-horse that can be used with one hand. A new tool, it features sharp, clean action, special design that eliminates need for spring. Has sure hold and hand comfort.

Tool No.	Approx. Length	Capacity Flat Strap	Capacity Round Strap	Approx. Weight Lbs.
1290 T	12″	1¼″ x .050		1 lb. 10 ozs.



2690K HEAVY DUTY STEEL STRAP CUTTER

A long-handled, two-handed cutter that will make light work of the heaviest strapping. Long handles keep worker a safe distance from cut. Needed for loading and unloading freight cars, trucks, etc.

Tool No.	Approx. Length	Capacity Flat Strap	Approx. Weight Lbs.
2690 K	24″	2″ x .050	7 lbs.

HARD CHAIN CUTTER

The jaws of this cutter are highly tempered for maximum strength and durability. They're also short-nosed — and the cutting edges are slightly rounded — which makes them extra powerful and rugged. They crush rather than cut — and there are few chains they won't go through.

FOR CUTTING

HARD CHAIN INCLUDING ALLOY AND CASE-HARDENED, TEMPERED SPRING WIRE, CASE-HARDENED BOLTS AND SCREWS, HARD RODS EXCEPT STAINLESS. UP TO BRINELL 440, ROCKWELL C 46 HARDNESS.

Tool No.	Approx. Length	Capacity Hard Chain and Metals	Approx. Weight Lbs.
190 MHC	24″	5/16″	5¼
390 MHC	36″	7/16″	12⅝
590 HC	42″	½″	18

590 JM same as 590 HC but with POWERPULL and TRIPOD for easier cutting. (See page 5.)

390LK LINKMASTER
Tire Chain Repair Tool

Spreads tire chain cross links **and** closes them. Jaws are tough alloy steel, drop-forged and heat-treated. A lot lighter than a set of chains, too — so worker leaves the chains on the floor, takes the tool to the job and does the work standing up. A mechanic can do a lot more — and do it easier — with this LINKMASTER.

Spreading Link

Closing Link

Tool No.	Approx. Length	Capacity to Open or Close Links of Wire Size	Approx. Weight Lbs.
390LK	30″	Up to 13/32″ diam.	7

1390L LINKSEM

Spreads **and** closes cross links — but designed to be carried in car or truck for repairs on the road. Strong and rugged yet lightweight — and easy to stow away. Individually packed with full instructions.

To Open Link

To Close Link

Tool No.	Approx. Length	Capacity	Approx. Weight
1390 L	13″	5/16″ diam. links	1⅛ lbs.

690L LINKFIX

Every motorist should have one of these in his car the minute he puts chains on his tires. Easy to use. Spreads and closes links, **on the tire.** Prevents damage to tire and fender. Individually packed with full instructions.

To Open Link

To Close Link

Tool No.	Approx. Length	Capacity	Approx. Weight
690 L	6⅜″	All Passenger Car Tire Chains	4 oz.

These fast-action Jacks and Rams have a power range of from 8000 to 25,000 pounds — and every pound can be applied to the job. They can operate from any position — by remote control — and with "particular job" attachments can be used in most metal working industries to push, pull, lift, press, clamp, bend and spread. Companies all over the country are changing from mechanical to this form of hydraulic power to gain increased efficiency and economy. Pumps have a by-pass valve, two filter screens plus magnet to prevent damage from overloading and assure long, trouble-free service. Engineers of H. K. Porter, Inc., Somerville, Mass., will be glad to analyze individual requirements and work out solutions to specific problems.

SM-200 4 TON REMOTE CONTROL ALL POSITION JACK

An all-position, self-retracting jack. Weight 13½ lbs. Approximate oil capacity, 10 oz. Length of hose, 6 ft.

BU-300 5 TON DIRECT ACTION ALL POSITION JACK

Self-contained and self-retracting. Has standard 1¼" threads on end of piston and in ram cylinder base. Weight 13 lbs. Approximate oil capacity, 8 oz.

BU-450 10 TON REMOTE CONTROL JACK WITH ALL PURPOSE RAM

Self-retracting and has standard 1¼" threads on end of piston and ram cylinder base. Weight including hose — 24 lbs. Approximate oil capacity — 16 oz. Length of hose — 7 ft.

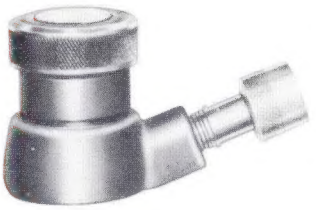
BU-500 12½ TON PUSH — 7½ TON PULL REMOTE CONTROL, JACK

An all-position, self-retracting jack with standard 1¼" threads on end of piston and in ram cylinder base. Weight including hose — 36 lbs. Approximate oil capacity — 24 oz. Length of hose — 7 ft.

SHORT RAMS and JACK ATTACHMENTS

SM-24, 4 TON SHORT RAM

Put 4 tons of quick action hydraulic power into confined areas. Only 4⅞" high, yet has 3¼" ram travel.



SM-14, EXTRA SHORT RAM

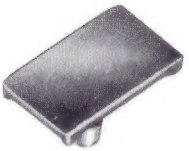
For use with 2, 3, 4, 7½ and 10 ton jacks. Only 2⅜" high, yet has a full inch of ram travel. Offset connector speeds hook-up and take down.

ATTACHMENTS FOR USE WITH P-F JACKS

4 TON JACKS

SM-39 JACK BODY TOE. Screws on to ram cylinder with toe plate in any position. Use with Ram Extension Toe for spreading and pushing.

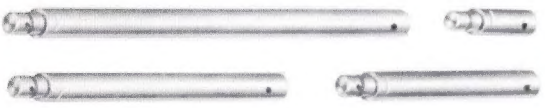
SM-40 RAM EXTENSION TOE. Attaches to ram for use with SM-39 for lifting and spreading.

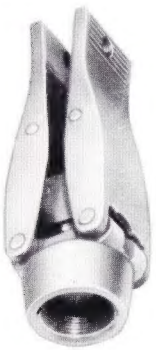


SM-41 JACK BASE. Attaches to either end of ram or to extensions for a solid base.

SM-43 RUBBER HEAD. Used as a terminal for pushing.

SM-44 OFFSET SPREADING TOE. For offset pushing in narrow openings. Notched edge can be used as an anchoring point against bolts and nuts for difficult pushing operations.





EZ-E-ON TUBE EXTENSIONS. Assemble to span space required for pushing or pulling operations.

SM-50-20", SM-52-12", SM-53-3", SM-55-5" and SM-58-8". Simply push-twist and connections are made.

SM-75 SPREADER. For getting into close areas for spreading. The jaws are made of fine forged steel for strength and serrations on jaw prevent slipping.

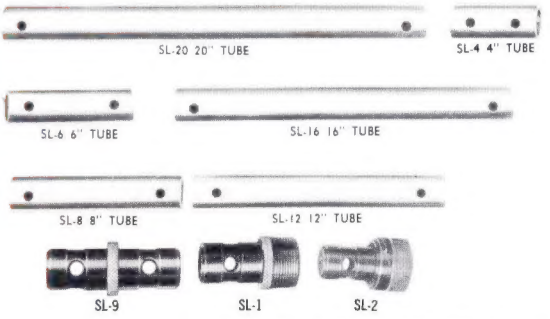
10 TON JACKS

BU-580 JACK BASE. Screws with nipple into ram bottom or on extensions wherever a broad base is required.

BU-700 LARGE RUBBER BASE; BU-705 SMALL RUBBER BASE. Flat top resilient base for use as a terminal point.

BU-904 JACK BODY NESTING TOE. Screws on ram cylinder with toe-plate. Combines with BU-905 for spreading or lifting.

BU-905 PUSH-PULL NESTING TOE. Screws on ram piston for lifting and combines with BU-904 for spreading.

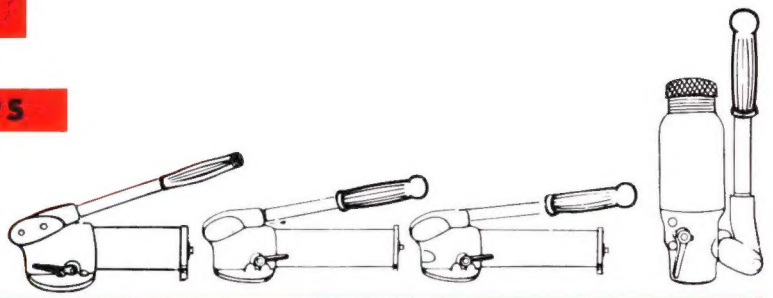


SPEEDLOK TUBE EXTENSIONS. Pieces snap together to span space required for pushing or pulling operations.

SL-4-4", SL-6-6", SL-8-8", SL-12-12", SL-16-16", SL-20-20", SL-9 Connector, SL-1 Male Threaded Adapter, SL-2 Female Threaded Adapter.

BU-750 SPREADER. For getting into close areas for spreading. Closes to 1½", yet spreads to a powerful 16".

HYDRAULIC PUMPS



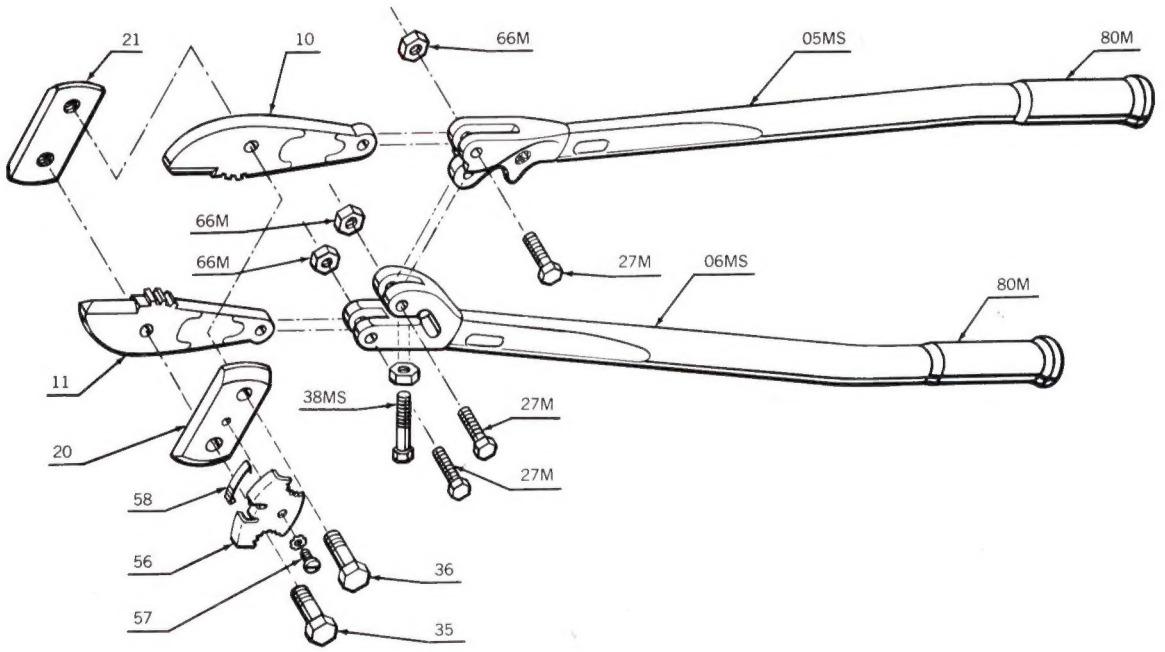
	SM-33	BU-453	BU-503	BU-300
P.S.I. Developed	10,000	10,000	10,000	5650
Oil Cap. in Cu. In.	12½	25	25	10½
Cu. In. Displ. Per Stroke	.196	.196	.196	.248
Pump Plunger Stroke	1″	1″	1″	1″
Ram Travel Per Pump Stroke	.158″	.081″ to .110″	.049	.140
No. Strokes for Full Extension	30	52	117	28.5
Weight — With Oil	9 lbs.	10 lbs.	13 lbs.	13 lbs.
Hose Hole Thread	¼″ NPT	¼″ NPT	¼″ NPT	—
Used With Ram No.	SM-34 BU-34 SM-24 SM-14	BU-404 BU-454 SM-14	BU-504	—

HYDRAULIC RAMS

	SM-14	SM-24	SM-34	BU-454	BU-504
Capacity — Tons	4	4	4	10	12½-PUSH 7½-PULL
Effective Piston Area (Sq. In.)	1.107	1.107	1.107	2.4	3.976-PUSH 1.902-PULL
Piston Travel Per Stroke	.158″	.158″	.158″	.081″	.049″
Retracted Height	2 5/16″	4⅞″	9″	11″	12¼″
Piston Travel	1″	3¼″	4¾″	5¾″	5¾″
Extended Height	3 5/16″	8⅛″	13¾″	16¾″	18″
Piston Diameter	1 3/16″	1 3/16″	1 3/16″	1¾″	2¼″
Spring Return	NO	NO	YES	YES	YES
Hose Hole Thread	¼″ NPT	¼″ NPT	¼″ NPT	¼″ NPT	¼″ NPT
Maximum O.D.	1¾″	1¾″	1¾″	2½″	3½″
Ram Thread (Male)	—	—	—	1¼″-11½ NPT	1¼″-11½ NPT
Body Thread (Male)	—	—	1½″-12 US	2¼″-14 US	2¼″-14 US
Base Thread (Female)	—	—	—	1¼″-11½ NPT	1¼″-11½ NPT
Weight (lbs.)	1½	2½	3	9	17
Oil Capacity (Cu. In.)	1.05	3.4	5.25	13.8	23-PUSH 11-PULL
Operated by Pump No.	SM-33	SM-33	SM-33	BU-453	BU-503
Operating Pressure at Capacity	BU-403 7250	7250	7250	8350	6300-PUSH 6780-PULL

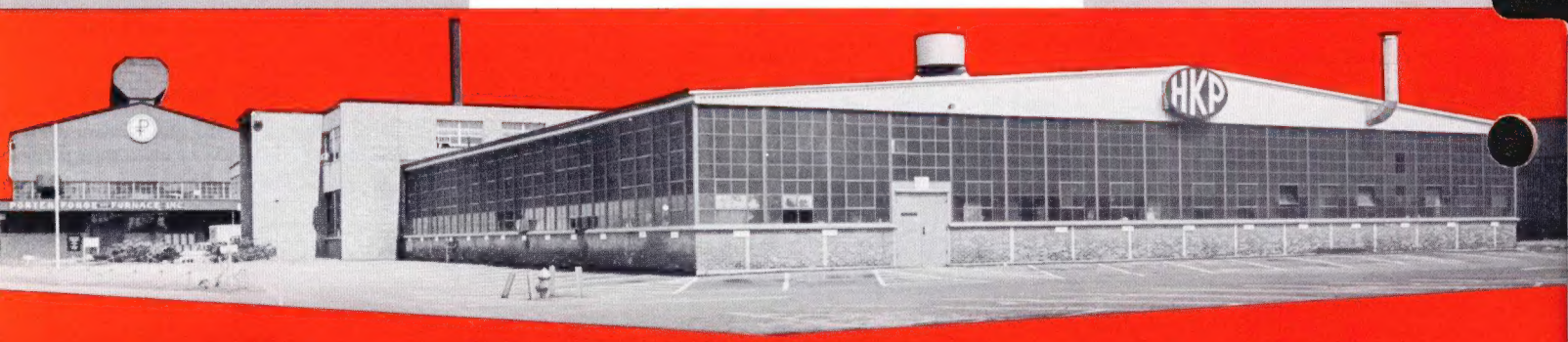
HOW TO ORDER REPLACEMENT PARTS

1. **EXAMPLE:** — To order a right handle for #2 tool — part number is #05MS, so add the #2 and order a #205MS Handle.
2. **EXAMPLE:** — To order Center Cut left jaw for a #0 tool — part number is #11, so add the #0 plus letter for type and order a #011C Jaw.
3. **NOTE:** — For tools of this new design add letter "M" after part number.



ADD TOOL SIZE HERE	PART NO.	DESCRIPTION
	05MS	Right Handle (Stub, tube, grip)
	06MS	Left Handle (Stub, tube, grip, adj. screw & nut)
	10	Right Jaw (specify type)
	11	Left Jaw (specify type)
	20	Top Strap
	21	Bottom Strap (threaded holes)
	27M	Connecting Bolt only
	27MS	Connecting Bolt and Nut
	35	Left Jaw Bolt, right thread
	36	Right Jaw Bolt, left thread
	38MS	Adjusting Screw and Nut
	56	Lockplate
	57	Lockplate Screw and Washer
	58	Throat Spring
	66M	Nut for Connecting Bolt
	80M	Rubber Grip only

HKP®



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